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SOME ARACHNIDA FROM NORTH CAROLINA.

BY NATHAN BANKS.

The material upon which this article is based was collected by Prof. J. H. Emerton, Mr. William Beutenmüller, and the writer, mostly in the mountainous, western part of the State. Prof. Emerton, during a collecting trip in the South in 1903, stopped at a number of localities in North Carolina. His itinerary was about as follows:

Durham, 8 and 9 July; Chapel Hill, 10 July; Salisbury, 12 July; Morganton, 12 July; Pineola, 14 July; Road to Roan Mt., 15 July; Roan Mt. Summit, 15 to 18 July; Linville, 19 July; Blowing Rock, 19 July; Paint Rock, 20 July; Asheville, 23 July; Balsam, 24 July; and Black Mt., Aug. 1 to 3.

Mr. Beutenmüller collected for several seasons in the valley of the Black Mountains for the American Museum of Natural History. The spiders were sent to me for identification. The writer spent the last two weeks of May, 1910, in the same valley visited by Mr. Beutenmüller. This valley is on the north fork of the Swannanoa River, about five miles from Black Mountain Station. The altitude is about 2,500 or 2,600 feet; and most of the collecting was done below 3,000 feet. Some specimens were taken on the summit of Mt. Graybeard, a neighboring peak, 5,548 feet high.

The spider fauna of these western mountains is similar in many respects to that found in New York and New England. Some few species, such as *Hypochilus* and *Nemastoma*, indicate the remnants of a fauna once connected with that of the Northwestern United States and China, or Mongolia. Why these few forms, so long resident in these mountain valleys, have failed to spread, will, doubtless, long be a puzzling question. There is apparently nothing in their habits to justify such a restricted habitat.

HYPOCHILIDÆ.

Hypochilus thorelli Marx.

Paint Rock; Balsam; Swannanoa Valley, up Sugar Fork, hanging under rocks near stream.

SCYTODIDÆ.

Scytodes thoracica Latr.

Durham.

PHOLCIDÆ.

- Pholcus phalangoides** Fuessl.
Chapel Hill, Salisbury.

DYSDERIDÆ.

- Ariadne bicolor** Htz.
Paint Rock.

DRASSIDÆ.

- Sergiolus variegatus** Htz.
Black Mts. (Beutenmüller).
Sergiolus cyaneiventris Simon.
From Southern Pines (Manee).
Zelotes atra Htz.
Roan Mt. Summit, Swannanoa Valley.
Zelotes depressa Emer. Pl. XXXIV, fig. 1.
Swannanoa Valley.
Zelotes frigida Banks.
Swannanoa Valley.

Callilepis femoralis n. sp. Pl. XXXV, fig. 11.

Cephalothorax pale red-brown, margin darker; mandibles red-brown; sternum and coxæ pale yellowish-brown; abdomen deep black; legs pale, but femora and tibiæ I and II black, and densely black-haired. Eyes about as in *C. imbecilla*, the rows very short, and the S. E. perhaps a little larger than in *C. imbecilla*; sternum a little longer than broad; abdomen truncate at base, depressed; legs long and slender, the metatarsi and tarsi longer than usual in the genus; tibia I and II with three pairs of spines below, the last apical, two pairs below these metatarsi, tarsus I only a little shorter than metatarsus I. Length 10 mm.

From Mt. Graybeard, N. Car., 23 May, 1910. Differs from *C. imbecilla* in longer legs, and darker femora and tibiæ I and II.

Callilepis imbecilla Keys.

Balsam, Swannanoa Valley, among dead leaves.

Drassus robustus Emer.

Swannanoa Valley, among leaves.

CLUBIONIDÆ.**Clubiona abbotti** Koch.

Balsam, Mt. Graybeard, Swannanoa Valley, in dead leaves of Rhododendron.

Clubiona crassipalpis Keys.

Swannanoa Valley, in curled *Rhododendron* leaves.

Clubiona pallens Htz.

Swannanoa Valley, one female.

Clubiona canadensis Emer.

Linville.

Chiracanthium inclusum Htz.

Chapel Hill.

Trachelas tranquilla Htz.

Swannanoa Valley, one female.

Castianeira pinnata Emer.

Blowing Rock, one female.

Phrurolithus alarius Htz.

Swannanoa Valley, common under stones; this is *P. palustris* Bks.

Phrurolithus sp.

One female from Balsam; this is the form that Emerton figured as female of *P. alarius*; he will describe it as new.

Phrurolithus formica Banks.

Swannanoa Valley, under stones; I have seen this species from Missouri.

Gayenna pectorosa Koch.

Mt. Graybeard, Swannanoa Valley, in dead leaves.

Gayenna saltabunda Htz.

Durham.

Micaria agilis Bks.

Chapel Hill, road to Roan Mt., Pineola.

Scotinella n. gen.

Clubionid, maxillæ rather short, inclined over the lip, lip broader than long, eyes similar to *Liocranum*, posterior eye-row straight, the P. M. E. slightly elliptical, dorsal groove present; spinnerets short; legs slender, without spines, except two on anterior femora, and a double series of long ones beneath tibiæ and metatarsi I and II, no spines on hind legs; claws long, not much curved, with small teeth near base. Differs from *Scotina*, *Liocrannum*, *Agræca*, and *Apostenus* in absence of spines on the hind legs.

Scotinella pallida n. sp. Pl. XXXIV, fig. 7.

Cephalothorax uniform yellowish, sternum and legs paler; abdomen whitish; all clothed with short hairs, dense on abdomen, sparse on

cephalothorax. Cephalothorax a little longer than broad, broad in front, groove distinct; eyes as figured, mandibles moderately stout, each with a prominent erect bristle on middle of front; abdomen truncate at base, rather slender, sternum nearly as long as broad, broadest behind coxæ II, somewhat 7-sided, rounded at tip. Legs slender, with short hairs, spines only as follows: two long, erect ones on middle of femur I, a double row of six each under tibia I, a double row under metatarsus I, 4 on inner side, 3 on outer side; beneath tibia II, 5 pairs, and under metatarsus II, 3 pairs, none of these are apical, and all very long.

Last joint of palpus densely clothed with short spine-like bristles.

Length 2.3 mm.

From Black Mt., north fork of the Swannanoa River, May, under dead leaves in forest.

AGELLENIDÆ.

Agelena nævia Htz.

Morganton, Linville, Murphy, Blowing Rock, Pineola, Durham, Black Mt., Swannanoa Valley, not common.

Tegenaria derhami Scop.

Roan Mt. Summit, Salisbury, Paint Rock, Swannanoa Valley.

Cybæus giganteus Bks.

Balsam, Black Mts. (Beutenmüller).

Coras medicinalis Htz.

Balsam.

Celotes calcarata Keys.

Mt. Graybeard, one female, male and female from Swannanoa Valley, Black Mts., Sept. (Beutenmüller).

Cicurina arcuata Keys.

Balsam, Swannanoa Valley.

Cicurina brevis Emer.

Roan Mt. Summit, Black Mts., Sept. (Beutenmüller).

Hahnia agilis Keys.

Roan Mt., Chapel Hill, Swannanoa Valley.

DICTYNIDÆ.

Dictyna foliacea Htz.

Pineola, Mt. Graybeard, Swannanoa Valley, common.

Dictyna sublata Htz.

Morganton, Durham.

Dictyna armata n. sp. Pl. XXXIV, fig. 9.

Male; cephalothorax reddish-brown, rather paler on the head, with white hairs; abdomen reddish-brown through the middle of dorsum, blackish on base and sides, the posterior dorsum often broken up by blackish bands, sometimes dorsum mostly all dark, with a pair of pale spots in front, one on each side before middle, and a row of pale spots behind in middle; legs very pale; venter and sternum pale. Female, cephalothorax pale yellowish through the middle, sides brownish, almost black on lower sides of head; abdomen pale yellowish, a faint dark spear-mark on base, two rows of brown spots behind, and the sides with dark marks; venter and sternum wholly pale, unmarked; legs very pale, and very slender, the abdomen rather short, broad, and flat. The male palpus has a very long tibial spur, which is faintly bifid at tip, and bears two bristles.

Length ♂ 1.5 mm.; ♀ 1.4 mm.

From north fork Swannanoa River, Black Mountain, N. Car.; the webs were found in dead, curled *Rhododendron* leaves lying on the ground.

Amaurobius bennetti Blackw.

Roan Mt. Summit, Blowing Rock.

THERIDIIDÆ.

Theridium tepidariorum Koch.

Paint Rock, Linville, Pineola, Chapel Hill, Swannanoa Valley.

Theridium rupicola Emer.

Paint Rock, Swannanoa Valley, quite common under stones.

Theridium punctosparsum Emer.

Balsam, Swannanoa Valley, beating *Rhododendron* leaves.

Theridium spirale Emer.

Swannanoa Valley, only one taken, sweeping.

Theridium differens Emer.

Durham, Road to Roan Mt., Balsam, Swannanoa Valley.

Theridium atramontanum n. sp. Pl. XXXV, fig. 12.

Cephalothorax yellowish, with a brown median stripe from eyes to tip, sometimes broken up near eyes. Legs yellowish (♂), in ♀ whitish with the femora I yellowish near tip. Abdomen grayish-white, reticulate above, with a basal, median brown mark, one on each lower anterior side, and two rows of three or four dark spots on the posterior middle of the dorsum, sometimes these dark marks outline a pale median stripe; venter and sternum pale unmarked.

Of the general structure and shape of *T. differens*, the male abdomen rather low, the female Epeira-shaped. Legs long and slender.

Length ♀, 2 to 2.5 mm.; ♂, 2 to 2.3 mm., femora I (♂), 2 mm.; tibia plus patella, 2.1 mm.; metatarsus, 1.9 mm.

From north fork Swannanoa River, Black Mountain, N. Car.; usually found under the leaves of the lowland Rhododendrons.

Theridium murarium Emer.

Linville, Durham.

Theridium blandum Htz.

Blowing Rock, Swannanoa Valley; sweeping.

Theridium frondeum Htz.

Road to Roan Mt., Pineola, Blowing Rock, Swannanoa Valley.

Theridium globosum Htz.

Swannanoa Valley, one.

Theridula sphaerula Htz.

Morganton, Durham, Murphy, Blowing Rock, Pineola, Swannanoa Valley.

Euryopsis funebris Htz.

Black Mts. (Beutenmüller).

Dipœna nigra Emer.

Swannanoa Valley, sweeping.

Pedanostethus riparius Keys.

Road to Roan Mt.

Steatoda borealis Htz.

Linville, Murphy, Pineola.

Enoplognatha marmorata Htz.

Pineola, Roan Mt. Summit, Swannanoa Valley, under stones.

Teutana triangulosa Walek.

Chapel Hill.

Crustulina guttata Reuss.

Swannanoa Valley, among dead fallen leaves.

Asagena americana Emer.

Linville, one.

Lathrodectes mactans Fabr.

Morganton, Swannanoa Valley, Black Mts. (Beutenmüller).

Epesinus amœnus n. sp. Pl. XXXV, figs. 13, 15.

Cephalothorax pale, with a broad dark stripe over head and back to near the tip, a more or less distinct dark streak near or on the sides,

eyes surrounded by black. Dorsum of abdomen grayish or blackish as far back as the humps, the sides and hind margin of this dark is edged with white; behind paler, but darker again toward tip; venter blackish on the sides, pale in the middle; sternum dark, with a pale median streak. Legs pale, broadly marked with brown, or reddish-brown; femur I mostly brown, others near tip; patellæ mostly dark; tibiæ brown at each end, broader at tip, and hardly distinct on legs II and III; metatarsi narrowly marked with brown at base and tip; and the tips of the tarsi usually darker. The cephalothorax is broad and rounded, the head distinctly elevated, the eyes as usual, but the hind row is scarcely recurved; the abdomen is flat, truncate at base, widened to the humps at the posterior third, and then tapers to tip.

Length 3 mm.

From north fork Swannanoa River, Black Mountain, N. Car., May; obtained by beating *Rhododendron* bushes.

Spintharus flavidus Htz.

Paint Rock.

Argyrodes trigonum Htz.

Linville, Swannanoa Valley.

Argyrodes cancellatus Htz.

Chapel Hill, Durham.

Ariamnes fctilium Htz.

Durham, one specimen.

Ceratinella fissiceps Cambr.

Roan Mt. Summit.

Ceratinella minuta Emer.

Swannanoa Valley, among dead leaves.

Ceratinella brunnea Emer.

Black Mts., Sept. (Beutenmüller).

Ceratinella lætabilis Cambr.

Black Mt. (Beutenmüller).

Notionella interpres Cambr.

Morganton, Chapel Hill, Linville, Pineola, Swannanoa Valley, Black Mts. (Beutenmüller), very common.

Ceratinopis nigripalpis Emer.

Swannanoa Valley, among dead leaves.

Ceratinopis alternatus Emer.

From Balsam.

Maso frontata Banks. Pl. XXXV, fig. 17.

Swannanoa Valley, under fallen leaves.

Lophocarenum moestum Banks. Pl. XXXV, fig. 10.

Swannanoa Valley, sifting fallen leaves.

Diplocephalus rostratus Emer.

Black Mts., Sept. (Beutenmüller), one male.

Diplocephalus carolinus n. sp. Pl. XXXIV, fig. 2.

Cephalothorax chestnut-brown; legs yellow-brown; abdomen black, sternum yellowish-brown, black on margins. Head elevated, into a median lobe, which is truncate in front and bears the P. M. E., which are over two diameters apart; A. M. E. small, scarcely diameter apart, farther from the larger A. S. E., the P. S. E. close to A. S. E. Inner edge of front of the mandibles with two small teeth; sternum fully as broad in front as long, rather rounded between hind coxæ, which are separated by more than their width.

Length 1.5 mm.

From Black Mt., N. Car., Swannanoa Valley, sifting fallen leaves.

Gonglydium atramontensis n. sp. Pl. XXXIV, figs. 5, 8.

Cephalothorax pale yellowish, legs still paler; abdomen blackish above and below; sternum blackish. Cephalothorax broad, mandibles with three teeth on outer side and a large median one on the inner edge; palpi long and slender, the basal hook large, a sharp, straight, simple stylet at tip; the sternum as broad at base as long, triangular, sharp-pointed behind; legs long and slender.

Length 1.1 mm.

From north fork of the Swannanoa River, Black Mountain, N. Car., May, under fallen leaves.

Hypselistes florens Cambr.

Black Mts. (Beutenmüller).

Grammonata ornata Cambr.

Black Mts. (Beutenmüller).

Cornicularia indirecta Cambr.

Black Mts., Sept. (Beutenmüller).

Erigone autumnalis Emer.

Swannanoa Valley, among leaves.

LINYPHIIDÆ.

Linyphia phrygiana Koch.

Roan Mt. Summit, in balsam trees, Swannanoa Valley, Black Mts. (Beutenmüller), common.

Linyphia maculata Emer.

One from Swannanoa Valley.

Linyphia grandæva Keys.

Roan Mt. Summit, one female.

Linyphia communis Htz.

Linville, Chapel Hill, Road to Roan Mt., Balsam, Durham, Swannanoa Valley, very common.

Linyphia marginata Koeh.

Paint Rock, Linville, Murphy, Chapel Hill, Balsam, Pineola, Swannanoa Valley, common.

Nerience clathrata Sundv.

Swannanoa Valley, on ground in the cherry orchard.

Linyphiella coccinea Htz.

Morganton, Chapel Hill, Durham.

Tapinopa bilineata Banks.

Black Mts., Sept. (Beutenmüller).

Lepthyphantes minuta Blackw.

Black Mt.

Bathyphantes zebra Emer.

Mt. Graybeard, Swannanoa Valley, among dead leaves.

Bathyphantes micaria Emer.

Swannanoa Valley, in grass.

Bathyphantes galbea Keys.

Swannanoa Valley, one specimen.

Bathyphantes unimaculata Banks.

Swannanoa Valley, in old meadow.

Bathyphantes nigrina Westr.

Roan Mt. Summit.

Microneta cornupalpis Emer.

Black Mts., Sept. (Beutenmüller), one male.

MIMETIDÆ.

Mimetus interfector Htz.

Chapel Hill, Swannanoa Valley, on low branches of trees.

TETRAGNATHIDÆ.

Pachygnatha tristriata Koch.

Blowing Rock.

Tetragnatha laboriosa Htz.

Morganton, Pineola, Black Mt., Linville, Durham, Murphy, Blowing Rock, Swannanoa Valley, common.

Tetragnatha grallator Htz.

Durham, Murphy, Linville, Paint Rock, Swannanoa Valley, common.

Eugnatha straminea Emer.

Linville, Swannanoa Valley.

EPEIRIDÆ.**Epeira displicata** Htz.

Swannanoa Valley, common.

Epeira globosa Keys.

Linville.

Epeira foliata Koch (*strix* Htz.).

Road to Roan Mt., Blowing Rock, Linville, Swannanoa Valley, on porch.

Epeira vulgaris Htz.

Salisbury, in stables.

Epeira infumata Htz.

Swannanoa Valley, young.

Epeira domicilliorum Htz.

Asheville.

Epeira ocellata Clerck.

Roan Mt. Summit, on balsam trees.

Epeira sanguinalis Htz.

Durham, one female.

Epeira juniperi Emer.

Black Mt., Paint Rock.

Epeira sericata Clerck.

Black Mt., also (Beutenmüller).

Epeira gigas Leach.

Black Mts. (Beutenmüller).

Epeira nordmanni Thor.

Linville, Swannanoa Valley, young.

Epeira trifolium Htz.

Linville.

Epeira trivittata Keys.

Morganton, Linville, Black Mt., Blowing Rock, Durham.

Epeira prompta Htz.

Paint Rock, Linville, Murphy, Black Mt., Durham, Swannanoa Valley, sweeping meadow.

Epeira catawba n. sp. Pl. XXXIV, fig. 4.

Cephalothorax dark brown, paler in eye-region, two pale median spots behind eyes, two more elongate near middle, and the posterior part under the abdomen is pale. Abdomen whitish-gray above, mottled and streaked behind and on the sides by greenish-white; underside pale, mottled with brownish, and with dark streaks radiating from the spinnerets; sternum pale, with faint dark spots on the sides; legs pale, marked with dark brown, two or three spots on femora, the patella mostly dark, and two spots on tibiæ, less distinctly on the metatarsi. Abdomen short, and broad, and high, about as broad behind as long, the base at middle with a pair of small approximate humps, at each outer corner a double hump, not elevated; the tip, seen from below, shows two other humps not far from the spinnerets; sternum with four humps each side and one behind; finger of epigynum quite long, transversely wrinkled on basal part.

Length 3 mm.

From Asheville (July).

Plectana stellata Htz.

Morganton, Durham.

Metepeira labyrinthea Htz.

Morganton, Durham, Pineola, Linville.

Acacesia foliata Htz.

Morganton, Paint Rock, Black Mt., Durham, Chapel Hill.

Zilla montana Koch.

Roan Mt. Summit, on houses and dead trees.

Singa truncata Banks.

Swannanoa Valley, in web near ground.

Mangora gibberosa Htz.

Black Mt., Blowing Rock, Durham, Chapel Hill.

Mangora maculata Keys.

Black Mt., Chapel Hill.

Mangora placida Htz.

Paint Rock, Linville, Durham, Chapel Hill, Mt. Graybeard, Swannanoa Valley, very common.

Cyclosa conica Pallas.

Linville, Durham, Black Mt., Blowing Rock, Balsam, Chapel Hill, Pineola, Black Mts. (Beutenmüller).

***Theridiosoma radiosa* McCook.**

Swannanoa Valley, not uncommon sweeping low plants; Pineola.

***Gea heptagon* Htz.**

Chapel Hill, one male.

***Argiope trifasciata* Forsk.**

Durham, Road to Roan Mt., Linville.

***Argiope aurantia* Lucas.**

Raleigh.

***Leucauge hortorum* Htz.**

Linville, Black Mt., Road to Roan Mt., Durham, Chapel Hill, Swannanoa Valley, Black Mts. (Beutenmüller).

***Acrosoma gracilis* Walck.**

Asheville, Swannanoa Valley, Black Mts. (Beutenmüller).

***Acrosoma spinea* Htz.**

Chapel Hill.

ULOBORIDÆ.***Uloborus plumipes* Lucas.**

Morganton, Swannanoa Valley, Black Mts. (Beutenmüller), web on dead branches.

***Hyptiotes cavatus* Htz.**

Paint Rock, Durham.

THOMISIDÆ.***Misumena vatia* Clerck.**

Black Mts. (Beutenmüller).

***Misumena oblonga* Keys.**

Morganton, Balsam, Pineola, Durham, Roan Mt. Summit, Blowing Rock, Black Mts. (Beutenmüller).

***Misumessus asperatus* Htz.**

Morganton, Durham, Swannanoa Valley, mostly young.

***Runcinia aleatoria* Htz.**

Morganton, Pineola, Durham, Chapel Hill.

***Xysticus ferox* Htz.**

Pineola.

***Xysticus triguttatus* Keys.**

Pineola, Blowing Rock.

***Xysticus formosus* Banks.**

Black Mts. (Beutenmüller).

Xysticus gulosus Keys.

Morganton, Chapel Hill, Swannanoa Valley.

Coriarachne versicolor Keys.

Black Mts. (Beutenmüller).

Tmarus caudatus Htz.

Durham, Chapel Hill, Swannanoa Valley, on dead branches.

Philodromus rufus Walck.

Swannanoa Valley, Black Mts. (Beutenmüller), common.

Philodromus ornatus Banks.

Black Mts. (Beutenmüller).

Philodromus carolinus n. sp. Pl. XXXV, figs. 14, 16.

Cephalothorax whitish, with several short brown streaks in eye-region, one each side on clypeus, and three brown spots on each side of the cephalothorax. Legs yellowish or brownish-yellow, the femora whitish, femora I and II with a broad brown stripe on anterior side beneath, behind mostly brown; femora III and IV with a dark brown stripe on the anterior side beneath, one behind and a less distinct one above, rest of legs not plainly striped, although tibiae III and IV are darker in front below than elsewhere. Abdomen white, with a pattern of rich brown marks as in the figure; venter and sternum whitish. Cephalothorax moderately broad; eyes all small and wide apart; legs II a little longer than I, femora II longer than the cephalothorax, tibiae and metatarsi I and II each with two pairs of long spines beneath, the second pair at the middle of joint; femur I with three bristles on front, and two above.

Length 3.5 mm.

From Durham, N. Car., 8 July (Emerton).

PISAURIDÆ.**Pisaurina undata** Htz.

Morganton, Murphy, Chapel Hill, Swannanoa Valley, Black Mts. (Beutenmüller).

Dolomedes urinator Htz.

Swannanoa Valley, near stream.

Dolomedes fontanus Emer.

Lower part of Roan Mt., Black Mts. (Beutenmüller).

Dolomedes vernalis Emer.

Swannanoa Valley, in a bush.

Dolomedes sexpunctatus Htz.

Swannanoa Valley, by side of stream.

LYCOSIDÆ.

Pardosa retrorsa n. sp. Pl. XXXIV, figs. 3, 6.

Cephalothorax nearly black on the sides, black on eye-region, and there traversed by a narrow median line of white hair, extending down to the front eye-row; behind with a broad median reddish stripe, much constricted before the dorsal groove; some pale spots on the sides; and some white on the sides of clypeus. Mandibles reddish-brown, maxillæ pale, lip black, sternum blackish; abdomen pale above, blackish on anterior sides, and with some scattered black marks above, most noticeable behind; venter pale. Legs pale, the front femora black, and other femora and hind tibiæ more or less distinctly banded with dark; basal joint of palpus black, rest pale. Of general shape of *P. lapidicina*, but legs perhaps a little longer, all with long stout spines.

Length 6 mm.; hind legs 15 mm.

From Linville, N. Car., July (Emerton). Related to *P. lapidicina*, but the palpus quite different, and the white line on eye-region is peculiar. A female, apparently of this species, sent by Prof. Emerton, was taken at Coles Creek Notch, 20 miles north of Bloomsburg, Pa., 19 Sept., by Mr. Lutz.

Pardosa minima Keys.

Swannanoa Valley, in meadow.

Pardosa canadensis Blackw.

Morganton, Balsam, Roan Mt., Murphy, Linville, Pineola, Asheville, Durham.

Pardosa mæsta Bks.

Linville, one female.

Pardosa lapidicina Emer.

Roan Mt., Swannanoa Valley, in field.

Lycosa carolinensis Walck.

Asheville.

Lycosa helluo Walck.

Asheville, Swannanoa Valley.

Lycosa frondicola Emer.

Swannanoa Valley, among dead leaves.

Lycosa aspersa Htz.

Linville, Durham, Black Mts., Sept. (Beutenmüller).

Lycosa lenta Htz.

Morganton.

Lycosa pulchra Keys.

Swannanoa Valley, one female.

Lycosa avida Walck.

Roan Mt., Blowing Rock, Linville, Pineola, Swannanoa Valley, under stones.

Lycosa ocreata Htz.

Pineola, Balsam, Linville, Swannanoa Valley, very common, Black Mts. (Beutenmüller).

Lycosa gracilis Bks.

Paint Rock, Swannanoa Valley, common.

Lycosa punctulata Htz.

Chapel Hill.

Lycosa rabida Walck.

Morganton, Asheville, Swannanoa Valley, young.

Pirata minuta Emer.

Blowing Rock, Pineola.

Pirata montana Emer.

Linville, Balsam, Asheville, Swannanoa Valley, very common in a woods near stream.

Geolycosa missouriensis Bks.

Chapel Hill.

Trochesa cinerea Fabr.

Morganton.

Allocosa funerea Htz.

Swannanoa Valley, common.

Allocosa sublata Montg.

Swannanoa Valley, a few specimens.

OXYOPIDÆ.**Oxyopes salticus** Htz.

Morganton, Paint Rock, Linville, Blowing Rock, Pineola, Durham, Roan Mt., Chapel Hill, Swannanoa Valley.

Peucetia viridans Htz.

Durham.

ATTIDÆ.**Phidippus andax** Htz.

Swannanoa Valley, young, Black Mts. (Beutenmüller).

Phidippus podagrosus Htz.

Asheville, Mt. Graybeard.

Phidippus insigniarius Koch.

Swannanoa Valley, one specimen sweeping.

Phidippus rufus Htz.

Durham.

Dendryphantes octavus Htz.

Durham, Swannanoa Valley, very common.

Dendryphantes castaneus Htz.

Balsam, Swannanoa Valley, among dead leaves.

Philæus militaris Htz.

Swannanoa Valley, not common, on trees.

Pellenes borealis Bks.

Mt. Graybeard, one male, in grass.

Pellenes peregrinus Peckh.

Swannanoa Valley, one female, under leaves.

Habrocestum pulex Htz.

Durham, Swannanoa Valley, common on fallen trees, stones, etc.

Habrocestum parvulus Banks.

Black Mts. (Beutenmüller).

Thiodina sylvanus Htz.

Durham.

Phlegra leopardus Htz.

Swannanoa Valley, one specimen, among dead leaves.

Mævia niger Htz.

Blowing Rock, Durham, Mt. Graybeard, Swannanoa Valley, very common on bushes and herbage.

Wala palmarum Htz.

Blowing Rock, Swannanoa Valley, on trees.

Wala mitrata Htz.

Swannanoa Valley, also on trees.

Marpissa undata DeGeer.

Black Mts. (Beutenmüller).

Hycia pikei Peckh.

Durham.

Icius canadensis Blackw.

Blowing Rock.

Fuentes lineata Hentz.

Paint Rock.

Tutelina elegans Htz.

Asheville, Durham, Swannanoa Valley, Black Mts. (Beutenmüller).

Zygoballus sexpunctatus Htz.

Swannanoa Valley, in old field.

Zygoballus parvus Htz.

Swannanoa Valley, Durham, Black Mts. (Beutenmüller).

Neon nelli Peckh.

Swannanoa Valley, among fallen leaves.

Sassacus papenhœi Peckh.

Blowing Rock.

Synemosyna formica Htz.

Swannanoa Valley, on plants.

PHALANGIDÆ.**Liobunum grande** Say.

Swannanoa Valley.

Liobunum ventricosum Wood.

Swannanoa Valley, common.

Liobunum flavum Banks.

Black Mts. (Beutenmüller).

Liobunum crassipalpis Bks.

Roan Mt.

Oligolophus pictus Wood.

Roan Mt.

Scotolemon brunnea Banks.

Collected by Mr. Beutenmüller at Black Mt.

Caddo agilis Banks.

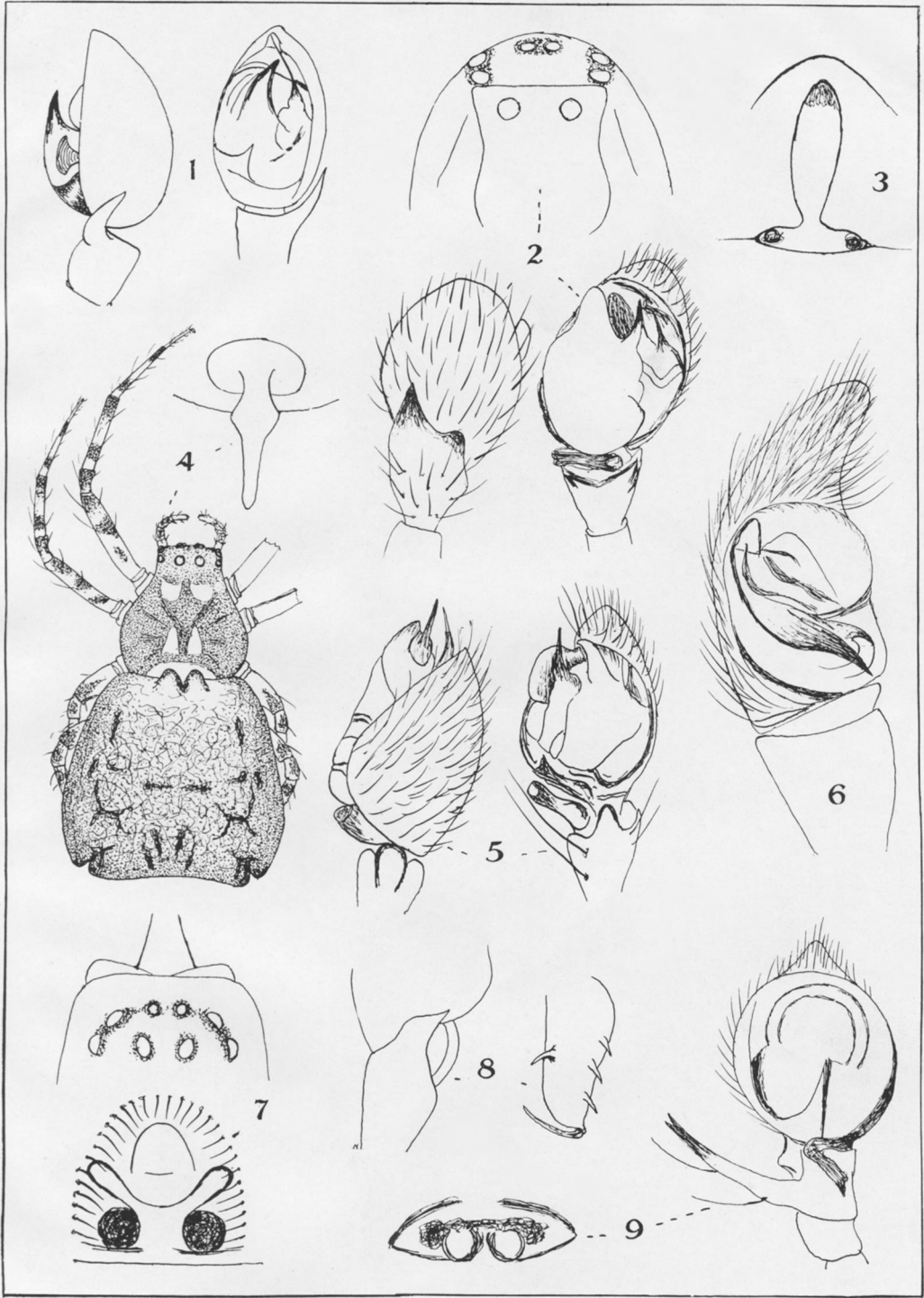
Swannanoa Valley, under leaves.

Nemastoma dasycnemum Crosby.

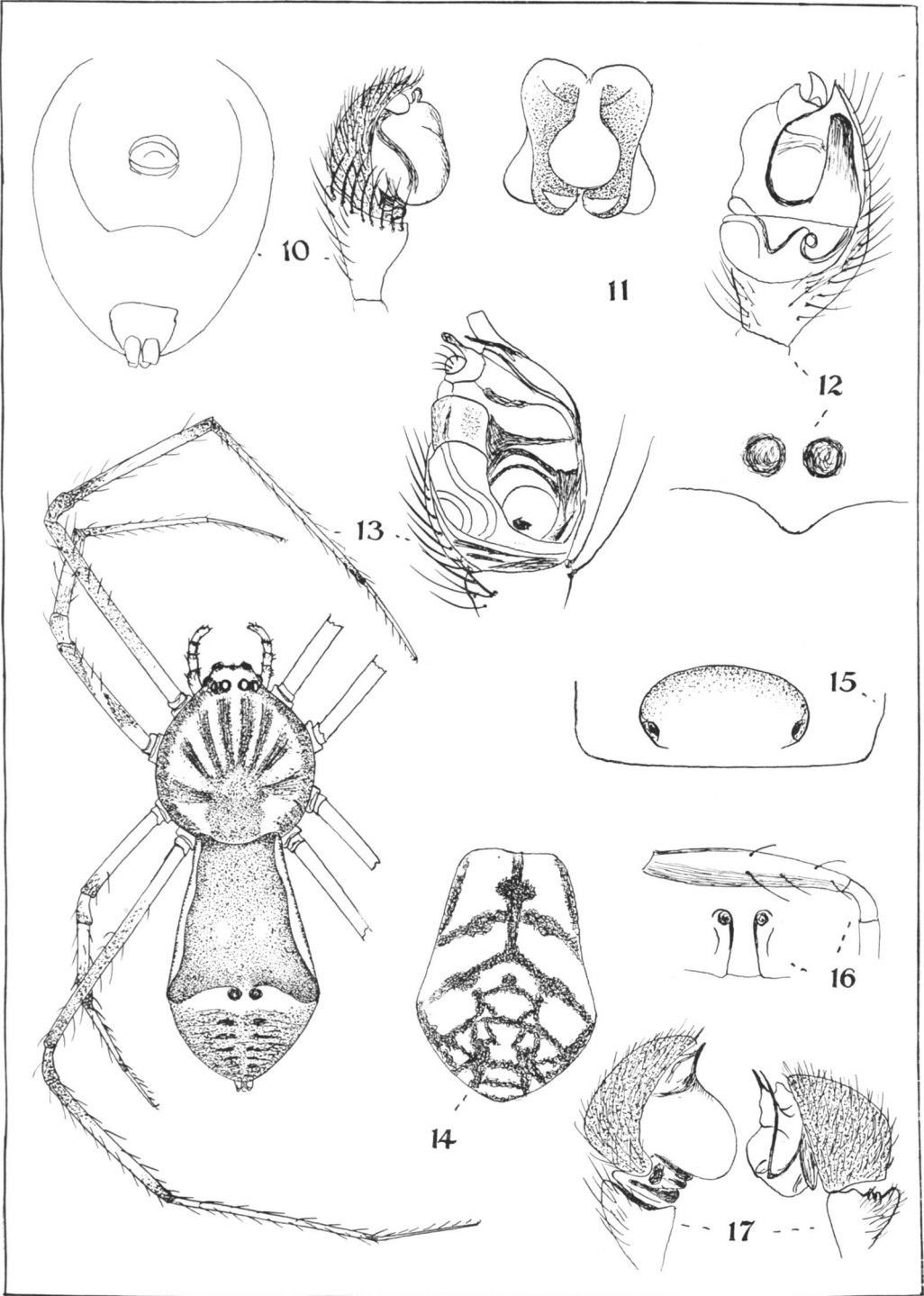
Swannanoa Valley, under leaves.

EXPLANATION OF PLATES XXXIV, XXXV.

- Fig. 1.—*Zelotes depressa*.
 “ 2.—*Diplocephalus carolinus*.
 “ 3.—*Pardosa retrorsa*.
 “ 4.—*Epeira catawba*.
 “ 5.—*Gonglydium atramontensis*.
 “ 6.—*Pardosa retrorsa*.
 “ 7.—*Scotinella pallida*.
 “ 8.—*Gonglydium atramontensis*.
 “ 9.—*Dictyna armata*.
 “ 10.—*Lophocarenum mæstum*.
 “ 11.—*Callilepis femoralis*.
 “ 12.—*Theridium atramontanum*.
 “ 13.—*Epesinus amœnus*.
 “ 14.—*Philodromus carolinus*.
 “ 15.—*Epesinus amœnus*.
 “ 16.—*Philodromus carolinus*.
 “ 17.—*Maso frontata*.



BANKS: ARACHNIDA FROM NORTH CAROLINA.



BANKS: ARACHNIDA FROM NORTH CAROLINA.